Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An integrated circuit card, comprising:

an integrated circuit having a biometric voice sensor integrated into a portion of the integrated circuit, wherein the voice sensor is configured to detect the speech of a user and to produce a signal responsive to the speech of the user; and

a voice processing circuit integrated into a portion of the integrated circuit, wherein the voice processing circuit is configured to receive the signal from the biometric voice sensor and to process the signal to extract the signal-voice characteristics representative of the user.

- (Previously Presented) The integrated circuit card of claim 1, wherein the integrated circuit further includes memory for storing information indicative of at least one user's voice characteristics.
- (Previously Presented) The integrated circuit card of claim 2, further comprising means for establishing a data link to download data from which the stored information is derived.
- 4. (Previously Presented) The integrated circuit card of claim 2, wherein the integrated circuit card uses the stored information to authenticate the user.

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5. (Previously Presented) The integrated circuit card of claim 4, wherein the

information is indicative of the voice characteristics of multiple users and

wherein the integrated circuit card is configured to authenticate each of the

multiple users.

6. (Previously Presented) The integrated circuit card of claim 5, wherein the

integrated circuit card contains user specific profile information for each of

the multiple users that enables user specific device functionality.

7. (Previously Presented) The integrated circuit card of claim 4, wherein the

integrated circuit is configured to authenticate a user of the integrated circuit

card by comparing the characteristics of the voice sensor signal to

information stored in memory indicative of a predetermined password.

8. (Cancelled)

9. (Cancelled)

10. (Previously Presented) The integrated circuit card of claim 2, wherein the

integrated circuit is configured to execute a voice-transmitted command by

comparing the characteristics of the voice sensor signal to information stored $% \left(1\right) =\left(1\right) \left(1\right) \left($

in the memory indicative of an user speaking the command.

11. (Previously Presented) The integrated circuit card of claim 2, wherein the $\,$

integrated circuit is further configured to encrypt the voice sensor signal

using an algorithm.

12. (Previously Presented) The integrated circuit card of claim 2, wherein the

integrated circuit is configured to recognize the content of the user's speech.

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- 13. (Previously Presented) The integrated circuit card of claim 12, wherein the recognized content is used to classify the speech by keywords.
- 14. (Previously Presented) The integrated circuit card of claim 2, wherein the integrated circuit card comprises a plastic frame in which the integrated circuit is embedded and wherein the plastic frame is compliant with ISO 7816.
- 15. (Previously Presented) The integrated circuit card of claim 2, wherein the voice sensor comprises a pressure sensor.
- 16. (Previously Presented) The integrated circuit card of claim 15, wherein the pressure sensor includes a membrane that responds to a voice pressure wave.
- 17. (Previously Presented) The integrated circuit card of claim 15 wherein the pressure sensor comprises a set of piezoelectric gauges arranged in proximity to the membrane portion and configured to detect resistivity changes induced by the voice pressure waves.
- 18. (Previously Presented) The integrated circuit card of claim 17, wherein the gauges are connected in a Wheatstone bridge configuration.
- 19. (Previously Presented) The integrated circuit card of claim 15, wherein the pressure sensor comprises a first ring oscillator comprising an odd number of CMOS inverters and configured such that its output frequency increases when the pressure increases.

- 20. (Previously Presented) The integrated circuit card of claim 19, wherein the pressure sensor comprises a second ring oscillator comprising an odd number of CMOS inverter and configured such that its output frequency decreases when the pressure increases.
- 21. (Previously Presented) The integrated circuit card of claim 20, wherein the ratio of the first ring oscillator frequency and the second ring oscillator frequency is used to minimize temperature effects and optimize pressure sensitivity.
- 22. (Previously Presented) The integrated circuit card of claim 15, wherein the pressure sensor comprises a first capacitor and second capacitor.
- 23. (Previously Presented) The integrated circuit card of claim 22, wherein the capacitance of the first capacitor varies responsive to voice pressure waves and the capacitance of the second capacitor remains substantially constant responsive to voice pressure waves.
- 24. (Previously Presented) The integrated circuit card of claim 22, wherein first capacitor and second capacitor are connected in a half bridge configuration and connected to a signal processing unit configured to produce a voltage signal indicative of the change in capacitance of first capacitor.
- 25. (Previously Presented) The integrated circuit card of claim 15, further comprising a compound in contact with the active layer wherein the compound transfers voice pressure waves to the sensitivity element of the pressure sensor.

- 26. (Previously Presented) The integrated circuit card of claim 25, wherein the compound comprises room temperature vulcanized silicon.
- 27. (Previously Presented) The integrated circuit card of claim 1, further comprising a communication interface unit comprising a portion of the integrated circuit and connected to the voice processing circuit, wherein the interface unit includes a serial interface for communicating information through contacts according to an at least one of an ISO and USB protocol.
- 28. (Previously Presented) The integrated circuit card of claim 1, further comprising a battery power source to power The device integrated circuit card.
- 29. (Previously Presented) The integrated circuit card of claim 1, further comprising a wireless port configured to receive an electromagnetic signal to power The device integrated circuit card.
- 30. (Previously Presented) The integrated circuit card of claim 1, wherein the communication interface unit further includes a wireless port for communicating information to and from The device integrated circuit card in contactless applications.
- 31. (Previously Presented) A method of processing voice waves with an integrated circuit card, comprising:

generating an electrical signal with a voice sensor of the integrated circuit card responsive to speech spoken into the voice sensor;

analyzing the electrical signal with a signal processing circuit of the integrated circuit card to detect characteristics of the voice; and

comparing the detected voice characteristics with information stored in a memory of the integrated circuit card and indicative of a user's voice.

- 32. (Previously Presented) The method of claim 31, further comprising, responsive to the comparison between the detected voice characteristics and the information indicative of the user's voice, identifying the user.
- 33. (Previously Presented) The method of claim 31, further comprising, responsive to the comparison between the detected voice characteristics and the information indicative of the user's voice, authenticating the user.
- 34. (Previously Presented) The method of claim 33, wherein authenticating the user includes comparing the characteristics of the voice sensor signal to information stored in the memory indicative of the user speaking a password.
- 35. (Previously Presented) The method of claim 31, further comprising executing a voice-transmitted command.
- 36. (Previously Cancelled)
- 37. (Original) The method of claim 31, further comprising recognizing the content of the user's speech.
- 38. (Previously Presented) The method of claim 31, wherein generating the electrical signal includes measuring variations in an electrical parameter

caused by the voice pressure wave modifying an electrical characteristic of a pressure sensor of the integrated circuit.

- 39. (Original) The method of claim 38, wherein generating the electrical signal comprises using a first electrical parameter that increases with the voice pressure wave and a second electrical parameter that decrease or remains constant with the pressure wave and comparing the first and second parameters to determine the magnitude of the pressure wave.
- 40. (Original) The method of claim 39, wherein the first and second electrical signals comprise the voltage across first and second piezo resistors respectively.
- 41. (Original) The method of claim 39, wherein the first and second electrical signals are the capacitance of a first capacitor and the capacitance of a second capacitor respectively.
- 42. (Original) The method of claim 39, wherein the first and second electrical signals are the frequencies of first and second ring oscillators respectively.
- 43. (Original) The method of claim 31, further comprising, responsive to the comparison between the detected voice characteristics and the stored information, enabling communication between the integrated circuit card and the external data processing system.
- 44. (Original) The method of claim 43, wherein communication between the processing system and the smart card is done via at least one of an ISO port, a USB port, and a wireless port.

- 45. (Currently Amended) The method-integrated circuit card of claim 16, wherein the membrane is micro-machined into the integrated circuit.
- 46. (Currently Amended) The method integrated circuit card of claim 16 wherein the membrane has a thickness in the range of 10.0 to 25.0 micrometers
- 47. (Currently Amended) The method integrated circuit card of claim 15 wherein the pressure sensor comprising a set of pressure transducer.
- 48. (Currently Amended) The method integrated circuit card of claim 47 wherein the pressure transducer is a piezoelectric gauge comprising of polysilicon resistors in the vicinity of the membrane.